

1 cugcagaagc agaaagaagg uaagaaacgc augaagcaga ucgguaacgu
51 cgagcugccg caggaagcgu uccucgccau ucugcacguc ggcaaagaca
101 acaaauaacc cuuaggaguu ggcauggcga auauguuugc ccugauucug
151 gugauugcca cacuggugac gggcauuuuu uggugcgugg auaaaauucu
201 uuucgcaccu aaacggcggg aacgucaggc agcggcgag gcggcucggg
251 acucacugga uaaagcaacg uugaaaaagg uugcgccgaa gccuggcugg
301 cuggaaaccg gugcuucugu uuuuccggua cuggcuauccg uauugauugu
351 gcguucguuu auuuangaac cguuccagau cccgucaggu ucgaugaugc
401 cgacucuguu aaugggugau uuuaucugg uagagaaguu ugcuauggc
451 auuaaagau cuaucuacca gaaaacgcug aucgaaaacg gucauccgaa
501 acgcggcgau aucguggucu uaaaauaucc ggaagaucca aagcuu

FIGURE 1

1 cugcaggcug agguuguugcc cuuacaaaug caacaacgac auggauuaca
 51 acacccucan aaacaaaggg caaucaccug aucuaagcuc uuaccuauga
 101 cagugauagg uuaugccuuu uacucgacuu uugcacugac ugaaaaggac
 151 aaauuaaugu uaaaaaagau acuuuuacug gcucugcuuc cugcaaucgc
 201 cuucgcagag gaacuuccug cuccaguaaa agcgauugaa aaacagggca
 251 uuacaaucau caaaacaauu gaugcccccg gaggaaugaa agguuauuc
 301 ggaaaguanu aggauauggg cgucaccauc uaccugacuc cagaugguaa
 351 gcacgcuauc ucugguuaca uguacaacga gaaaggugaa aaccugagua
 401 acacacuuau cgaaaaagaa auuuacgcac cagccggacg cgaaaugugg
 451 caacggauug aacaauccca cuggcuccuc gacgguaaaa aagaugcgcc
 501 ggucauuguc uacgucuucg ccgauccguu cugcccauau uguaaacagu
 551 ucuggcagca ggcgcgcccc ugguuagauu cuggcaaagu gcaauuaaga
 601 acauuguugg uugggguuau caagccagaa agcccggcgz cagcagcggc
 651 aaauucuugcc uccaaagauc ccgcaaaaac cuggcaacaa uaugaagccu
 701 cugguggcaa gcuu

Figure 2

1 ctgcaggctg aggtgttgcc cttacaaatg caacaacgac atggattaca
 51 acaccctcat aaacaaaggg caatcacctg atctaagctc ttacctatga
 101 cagtgatagg ttatgccttt tactcgactt ttgcactgac tgaaaaggac
 151 aaattaatgt taaaaaagat acttttactg gctctgcttc ctgcaatcgc
 201 cttcgcagag gaacttcctg ctccagtaaa agcgattgaa aaacagggca
 251 ttacaatcat caaaacattc gatgcccccg gaggaatgaa aggttatctc
 301 ggaaagtatc aggatatggg cgtcaccatc tacctgactc cagatggtaa
 351 gcacgctatc tctgggttaca tgtacaacga gaaagggtgaa aacctgagta
 401 acacacttat cgaaaaagaa atttacgcac cagccggacg cgaaatgtgg
 451 caacggatgg aacaatccca ctggctcctc gacggtaaaa aagatgcgcc
 501 ggtcattgtc tacgtcttcg ccgataccgtt ctgcccatac tgtaaacagt
 551 tctggcagca ggcgcgcccc tgggtagatt ctggcaaagt gcaattaaga
 601 acattgttgg ttgggggttat caagccagaa agccccggcg cagcagcggc
 651 aattcttgcc tccaaagatc ccgcaaaaac ctggcaacaa tatgaagcct
 701 ctggtggcaa gctt

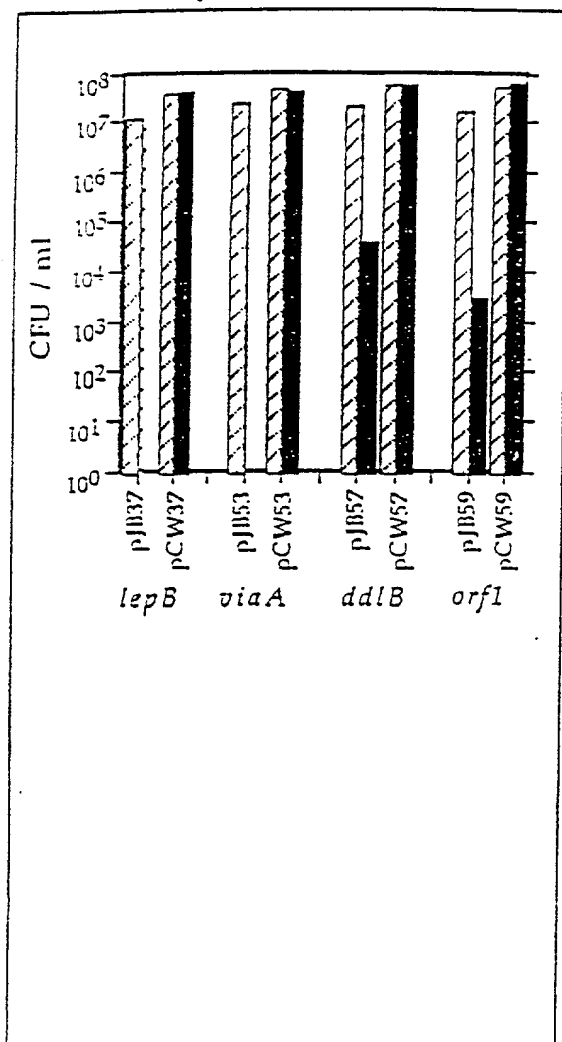
FIGURE 3

1 gaauucguac uaccaacugc gagaagcuca uaccugccug acgugccgcc
51 aucggcacca ggcuguggeu ggucuuaccc ggugagguaa uggcuuccag
101 cagauaaaac uguccaucgc uguccagcau aacgucaaua cguccccauc
151 cuuugcaacc uaacgucguc caugcuuua gcacuaaugc cugcaaaauug
201 gccucuugug acgcuuccag accugcgggg cagaaauacu gugucucauc
251 agagagauac uucgcccuc aucauagaa gguuccggac gguugaauac
301 guauugacgg uaaaauuucu ucaccgagua ucgcaaccgu gaacuccggc
351 ccacuuagcc auuuuucaau cauacuucu ucaucgugcu gaaaugccaa
401 ucuaaavgca ucuuguagag cauuuucugc uacuacuuuu gacauuccca
451 cacuggaacc uucgcggcuc ggcuaaacga uaaccggcaa acccagagca
501 gaaauuucug cuaacugcuu aucgcucagg ccuuuuucaa acucugcgcg
551 gguuaacgcu acccacggcg cgaccgguaa accggcaccu ugccaauagaa
601 guuugcugcg uaguuuaucc auugaaagcg cagaugccau cacuccgcuu
651 ccgguauaag scaagcccau cagcucgagc auccccugca gcguaccauc
701 uucaccgccg cgaccgugua gcgcgauaaa cacuuucuga aagcccaucg
751 acuucaguug cgucacgucg acuucuuucg gguccgacag auacgcguca
801 auaccgccuu cacgcagucc ggcuaacacc gcugcgccag aaauucagaga
851 aacuucccg cagcgaggag ucccacccaa caggaccgcg auuuuauacg
901 ucauguuguu cuuccuccgg aguuugcgcc uucaguuuga uuucagcuaa
951 agaacgggca auuuuuccaa uauuaccagc cccugaacg agaaucaggu
1001 cguuaccggg uaaauaccgg gccagcaucu cggcuaccgg cgccggaucc

FIGURE 4

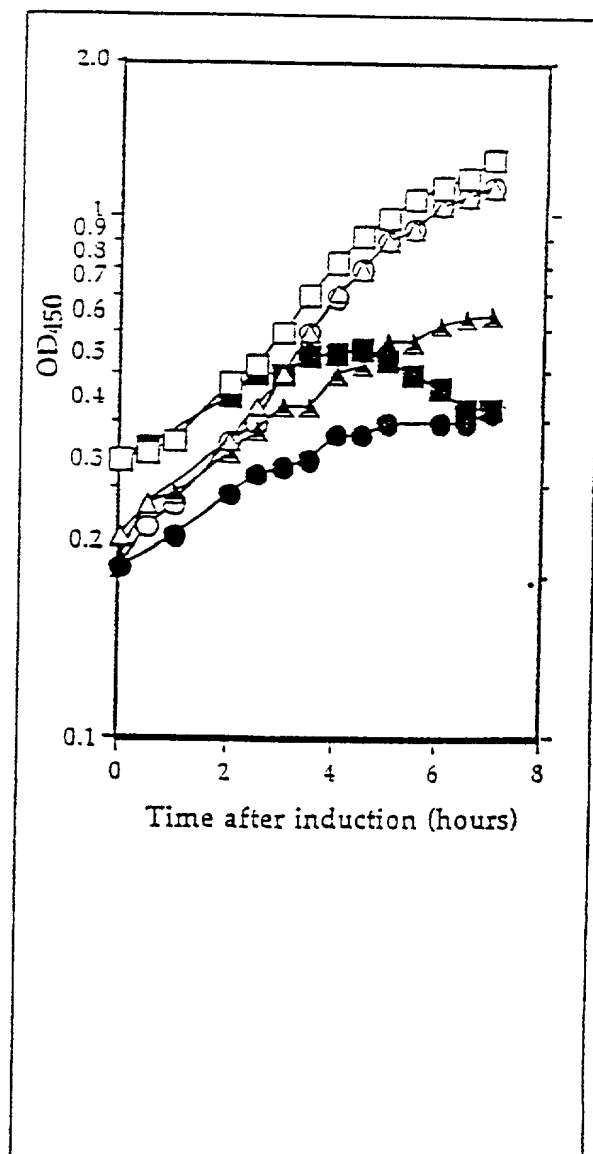
1 gaauucgugg augcuggugu ccugagacau aucagcgaug guaucgguca
51 gcacacuguu aaccgcaucg gcgauuuuu uguuggaggc cuggaacgca
101 ccuuccaacgu uguagcuggc acgauaguuu uuggucauuu uguugccauu
151 cugcgcggua gcgaugaugg cgauauccgc uuuggucgcg auguuguagc
201 gcacguugcc cugggacacg ucagcauaca guuggcuaac gaugauuugc
251 agauuaaccg ggccauucg accaaccaug uaaccacgcg cggucaucug
301 uuuuuccagc acuucugca gcaggaaacg cagaucgcg gaggcgguca
351 ggguaacgau uugauuauug cgggugacuu uugccagcgc cugaucggua
401 cgcugaucgg caccauuaau gcuuacggug acgcccauca ggcuuuggauc
451 c

FIGURE 5



□ - IPTG
 ■ + IPTG

FIGURE 6



lepB pJ337 —□— pJ337 + IPTG
ddlB pJ357 —○— pJ357 + IPTG
orf1 pJ359 —△— pJ359 + IPTG

FIGURE 7

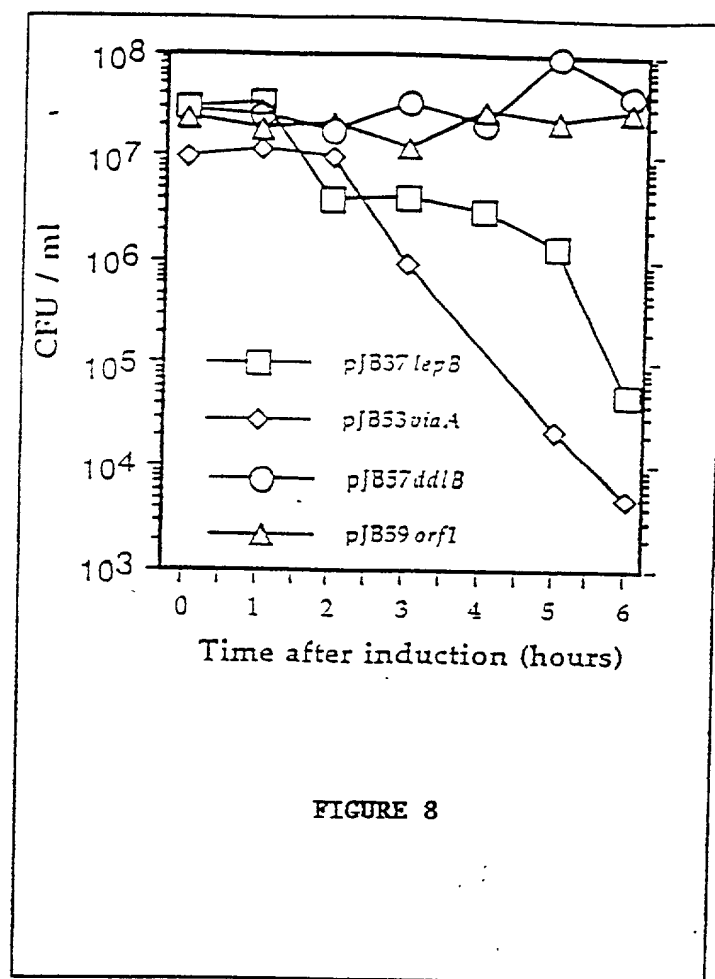


FIGURE 8

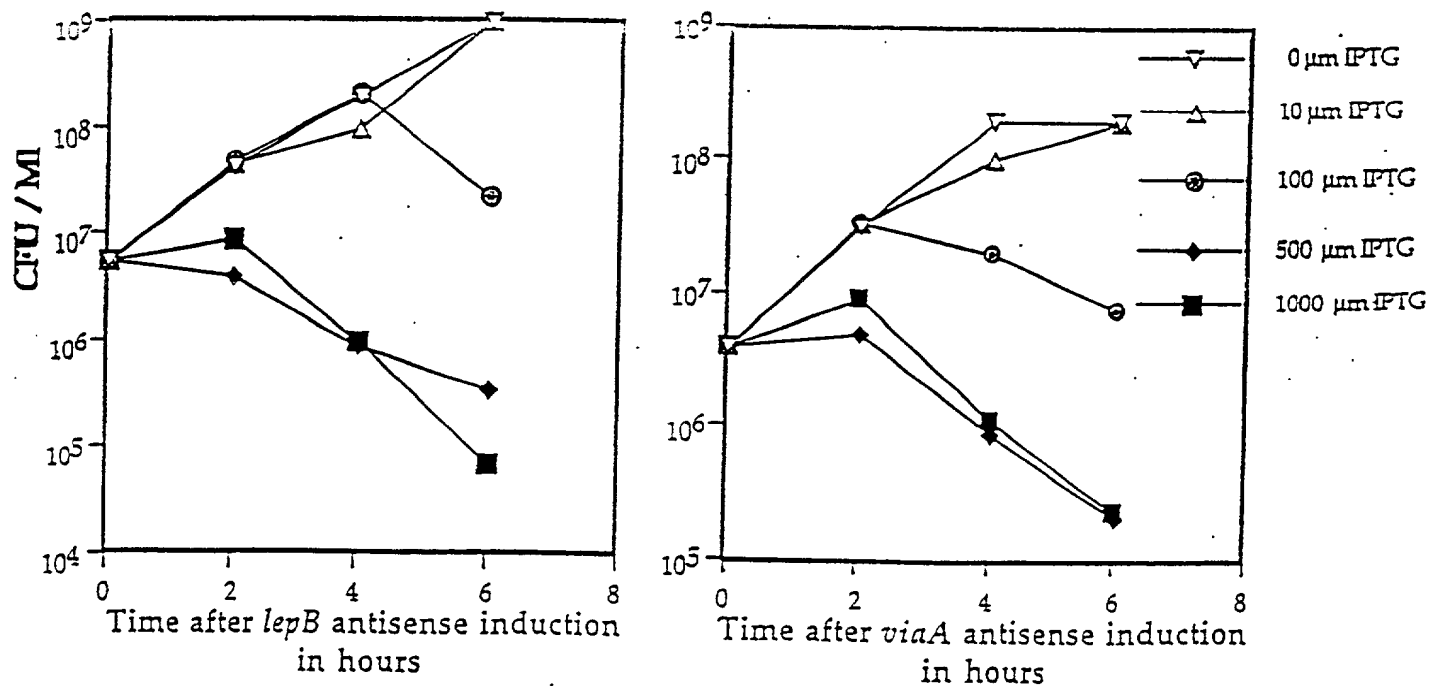


FIGURE 9

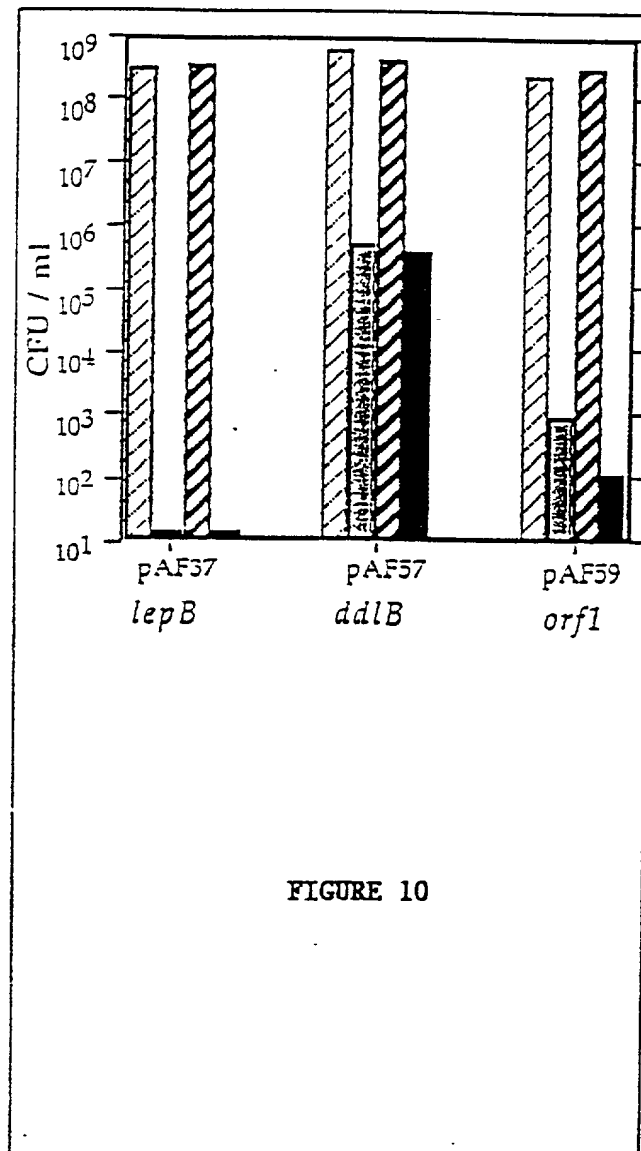


FIGURE 10

1 ctgcaggctt taatgataag atttgtgcgc taaatacgtt tgaatatgat
51 cgggatggca ataacgtgag tsgaatactg acgcgctggc gacagtttgg
101 taaacgctac ttctggccgc atctcttatt agggatgggtt gcggcgagtt
151 taggtttgcc tgcgctcagc aacgccgcgc aaccaaacgc gcccgcaaaa
201 gcgacaaccc gcaaccacga gccttcagcc aaagttaact ttggtcaatt
251 ggccttgctg gaagcgaaca cagccgcgc gaattcgaac tattccgttg
301 attactggca tcaacatgcc attcgcaagg taatccgtca tctttcttcc
351 gcaatggcac cgcaaact gcccgttgct gaagaatctt tgcctcttca
401 ggcgcaacat cttgcattac tggatacgtc cagcgcgctg ctgacccagg
451 aaggcacgcc gtctgaaaag ggttatcgca ttgattatgc gcattttacc
501 ccacaagcaa aattcagcac gccggtctgg ataagccagg cgcaaggcat
551 ccgtgctggc cctcaacgcc tcacctaca acaataaacc tttacttcat
601 tttattaact ccgcaacgcg gggcgtttga gattttatta tgctaataca
651 attgttaact aaagttttcg gttagtgtaa cgatcgacc ctgcgcgga
701 tgcgcaaagt ggtcaacatc atcaatgcca tggaaccgga gatggaaaaa
751 ctctccgacg aagaactgaa agggaaaacc gcagagtttc gtgcacgtct
801 ggaaaaaggc gaagtgcctg aaaatctgat cccgga

FIGURE 11

1 uccgggauca gauuuuccag cacuucgccu uuuuccagac gugcacgaaa
51 cucugcgguu uucccuuua guucucguc ggagaguuu uccaucuccg
101 guuccauggc auugaugaug uugaccacu ugcgcauccg gcgcagggug
151 cgauCGUuac gacuaccgaa aacuuuaguu aacaauuuga uuagcauaau
201 aaaaucucua acgccccgcg uugcgaguu aaauaauga aguaaagguu
251 uauuguuguu agguagaggcg uugagggcca gcacggaugc cuugcgccug
301 gcuuauccag acggcgugc ugaauuuugc uuguggggua aaugcgcau
351 aaucaaugcg auaaccuuu ucagacggcg ugccuuccug ggucagcagc
401 gcgcugagcg uauccaguaa ugcaagaugu ugcgccugaa gaggcaaaga
451 uucucagca acgggcagug uuugcgugc cauugcgaaa gaaagaugac
501 ggauuaccgu gcgaauaggca uguugaugcc aguaaucaac ggaauaguuc
551 gaauucgggc ggcguuguu cgcuccagc aaggccaauu gaccaaaguu
601 aacuuuggcg gaaggcucgu gguugcggu ugucgcuuu gcggcgcggu
651 uugguucggc ggcguugcug agcgaggca aaccuaaacu cgccgcaacc
701 auccuaaua agagaugcg ccagaaguag cguuaccaa acugucgcca
751 gcgcgucagu auccacuca cguauugcc auccgauca uauucaaag
801 uauuuagcg aaaaucua ucauuaaagc cugcag

FIGURE 12